

**Louisiana**  
**Department of Transportation**  
**And**  
**Development**

**Traffic Control Standard**  
**Number 33**

**Revised December 21, 1998**

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Traffic Control Standard # 33  
SPAN WIRE SIGN BRACKET  
Revised December 21, 1998

**1.0 GENERAL**

This specification sets forth the minimum requirements for a span wire sign bracket assembly to support a standard traffic control sign on a span wire cable in a range of 1/4" to 3/8".

All components and accessories shall be designed in order to insure reliability and minimum maintenance. Unless otherwise specified, all components and accessories shall conform to the specifications that follow.

**2.0 MATERIAL and CONTRUCTION**

The bracket shall be designed for alignment of the sign 360 degrees around the vertical axis and for adjustment to compensate for the vertical alignment of the sign caused by the slope of the support span cable. The vertical alignment shall be a maximum of 150 degrees, 75 degrees on each side of the centerline of the span wire clamp and alignment mechanism. The design of the mounting bracket shall be such that the bracket assembly is to withstand 100 mph winds while holding the weight of the sign, with additional sign weights, up to a maximum of 20 pounds.

A span wire clamp shall be supplied with the hanger bracket assembly. The clamp shall be fastened tightly to the support span cable, utilizing two "L" bolts and a cable protector, to prevent the bracket assembly from rotating around the support span cable. The cable clamp and its components are shown in **Figure 1**. The alignment mechanism shall be attached securely to the span wire clamp to prevent movement of the sign out of its intended alignment. All free swinging pivot points shall be hinged on a smooth 5/8" suspension (hanger) pin that is held in place with a cotter pin.

A flat surface shall be provided on the sign bracket for attaching the sign. The surface shall be a minimum of 1 1/4" wide and of a sufficient length and design to provide the attachment of a sign on a perimeter of a rectangle. In addition, four mounting holes shall be pre-drilled and located on the sign bracket as shown in **Figure 2**.

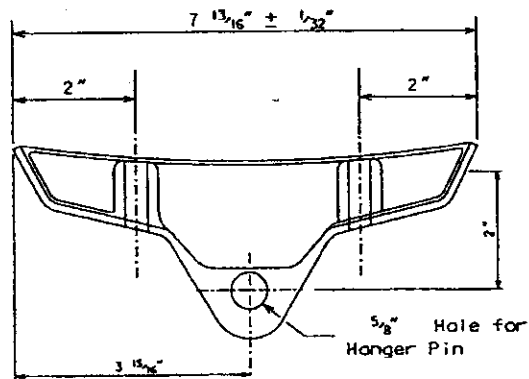
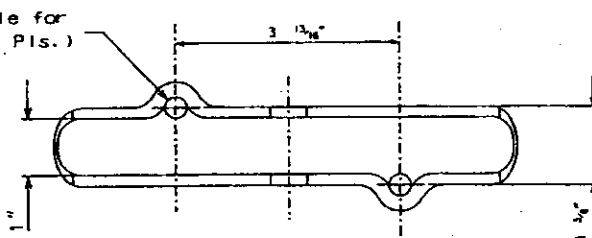
All equipment hardware, suspension (hanger) pins, cotter pins, and any other ferrous hardware shall be hot dipped galvanized steel. The span wire clamp, sign mounting bracket, and mounting adapters shall be of cast aluminum construction and contain a coating to prevent oxidization. All set screws, if required, shall be stainless steel and hex headed.

**3.0 WARRANTY**

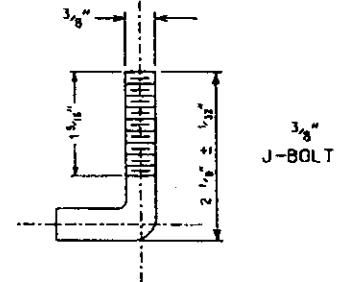
All equipment shall be warranted for a minimum of one (1) year. All warranty periods shall begin at the date of acceptance by the Department.

**4.0 DOCUMENTATION**

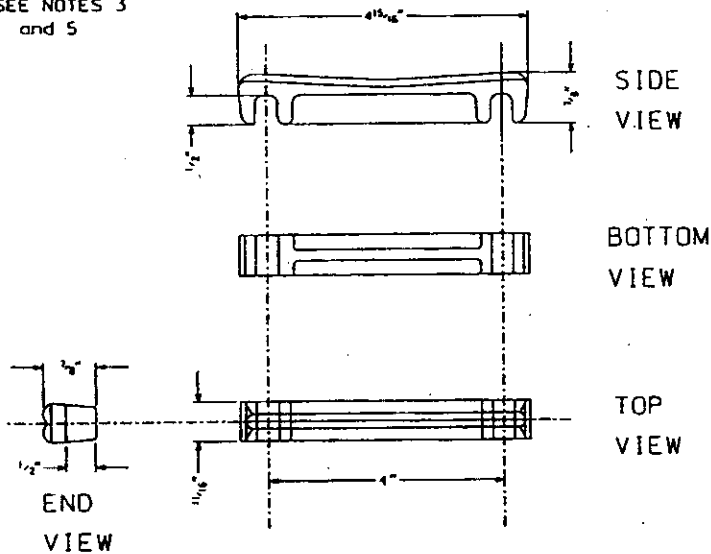
Detailed technical information, including drawings, etc., on the material being offered shall be supplied with the bid. Information shall be for all items required by this specification and on the order. In addition, the vendor must supply a sample of the product if there is any deviation from the drawings or written specifications.

TOP  
VIEWBOTTOM  
VIEW\* SEE NOTES 1, 2  
and 5

SADDLE

3/8" HEX  
NUT3/8" LOCK  
WASHER\* SEE NOTES 4  
and 6

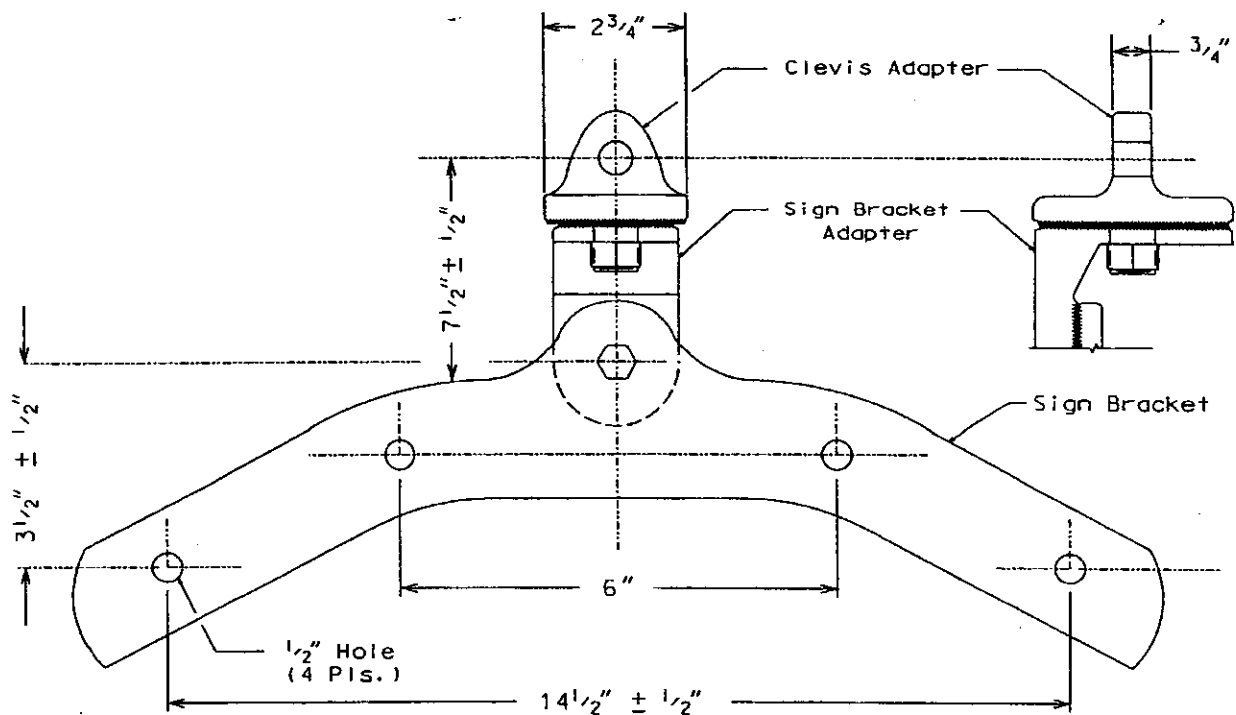
L-BOLT ASSEMBLY

\* SEE NOTES 3  
and 5

CABLE BAR (PROTECTOR)

## NOTE:

1. Span wire saddle to be designed to fit a cable range of 1/4" - 3/8".
2. 5/8" Suspension (Hanger) pin not shown above but shall be included with device. (See NOTE 6)
3. Cable bar to fit inside of saddle with bolt slots facing downward as shown in cable bar Side View.
4. One(1) L-Bolt (3/8" minimum size) to be present at each end of the saddle to hold the cable bar firmly against cable.
5. Material to be of Cast Aluminum construction with coating to prevent oxidization.
6. Material to be of Galvanized Steel construction.
7. VENDOR MUST SUPPLY A SAMPLE OF THE PRODUCT IF THERE IS ANY DEVIATION FROM THIS DRAWING OR THE WRITTEN SPECIFICATIONS.
8. See TCS #33 Figure 2 for Sign Mounting Bracket information.
9. See TCS #33 written specifications for more information.



## NOTE:

1.  $\frac{5}{8}$  " Suspension (Hanger) pin, with integral cotter pin, not shown above but shall be included with device.
2. All material for Devices shown to be of Cast Aluminum construction with coating to prevent oxidization.
3. All Hardware for Devices shown to be of Hot-Dipped, Galvanized Steel construction.
4. Sign Mounting Bracket pre-drilled with  $\frac{1}{2}$ " holes (See Drawing).
5. Sign Bracket to be designed to rotate 360° around the vertical axis and have a perpendicular swing of not more than 75° on each side of the vertical axis.
6. VENDOR MUST SUPPLY A SAMPLE OF THE PRODUCT IF THERE IS ANY DEVIATION FROM THE ABOVE DRAWING OR THE WRITTEN SPECIFICATIONS.
7. See TCS #33 Figure 1 for Span Wire Clamp and Accessories information.
8. See TCS #33 written specifications for more information.

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
TRAFFIC CONTROL STANDARD NO. 33

SIGN MOUNTING BRACKET DETAILS

FIGURE 2

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DRAWN BY: MAA